البياء ا

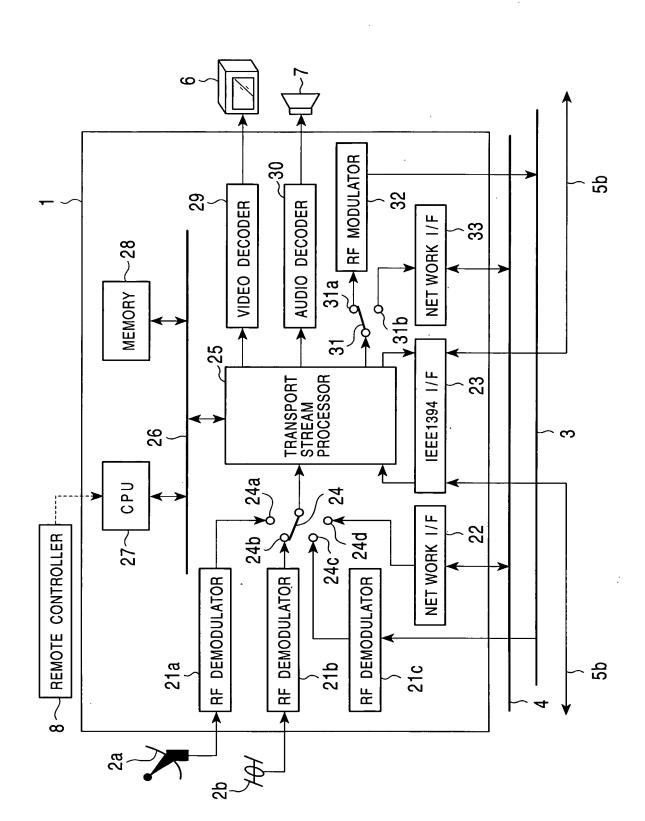




FIG. 2

 \sim 29 VIDEO DECODER 25 FIFO 55 -54 FIFO AUDIO DECODER 52 52a 52b 7-52c 56 DMA CONTROLLER [,]52d FFO \sim 28 30~ 57 50 31 MEMORY DATA INPUT 50a ~49b ADDRESS 49a~oho REGISTER 49 26 45a DATA 45c 45b INSTRUCTION DECODER 45/ CPU 51 \sim PROGRAM COUNTER INTER-RUPTION SIGNAL 42 FIFO INSTRUCTION MEMORY TRANSPORT STREAM

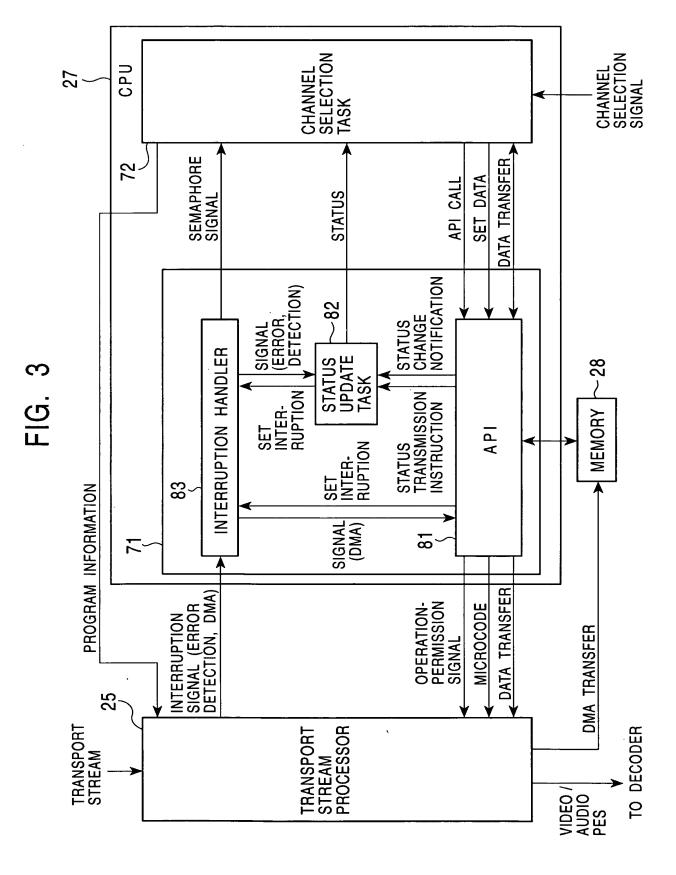


FIG. 4

CHANNEL SELECTION TASK	SOFTWARE DRIVER	TRANSPORT STREAM PROCESSOR
S1 CALL API AND INSTRUCT LOADING OF MICRO- CODE FOR DETECTING STREAM	S2 LOAD MICROCODE FOR DETECTING STREAM	S3 INITIATE DETECTION OF STREAM
S6 CALL API AND INSTRUCT ACQUISITION OF STATUS	→ S5 ← UPDATE STATUS AND OUTPUT SEMAPHORE SIGNAL	S4 DETECT STREAM AND OUTPUT INTERRUPTION SIGNAL FOR DETECTION
ACQUIRE STATUS AND CALL API, AND INSTRUCT LOADING OF MICROCODE FOR DETECTING STREAM AND SETTING OF ACQUI- SITION OF PROGRAM SPECIFICATIONS S12 INSTRUCT TRANSFER OF PROGRAM-SPECIFICATIONS INFORMATION S14 ANALYZE PROGRAM- SPECIFICATIONS INFORMA- TION, TRANSFER RESULT OF ANALYSIS, INSTRUCT DISPLAY, AND AWAIT EVENT	S7 OUTPUT STATUS FROM STATUS-UPDATING STATUS S9 UPDATE STATUS BY LOADING MICROCODE FOR VIEWING AND LISTENING, AND EXECUTE PROGRAM- SPECIFICATIONS SETTINGS S11 OUTPUT SEMAPHORE SIGNAL REPRESENTING COMPLETION OF DMA S13 TRANSFER OF PROGRAM- SPECIFICATIONS INFORMATION S16 OUTPUT SEMAPHORE SIGNAL OF ERROR	S10 TRANSFER PROGRAM- SPECIFICATION INFOR- MATION BY DMA AND OUTPUT INTERRUPTION SIGNAL REPRESENTING COMPLETION OF DMA
S17 RETURN TO STEP S1, S8, OR TRANSFER AUDIO VISUAL DATA	→ S18 TRANSFER SETTINGS OF PROGRAM VIEWING AND LISTENING	S19 OUTPUT VIDEO / AUDIO PES TO DECODER BASED ON PROGRAM SETINGS

FIG. 5

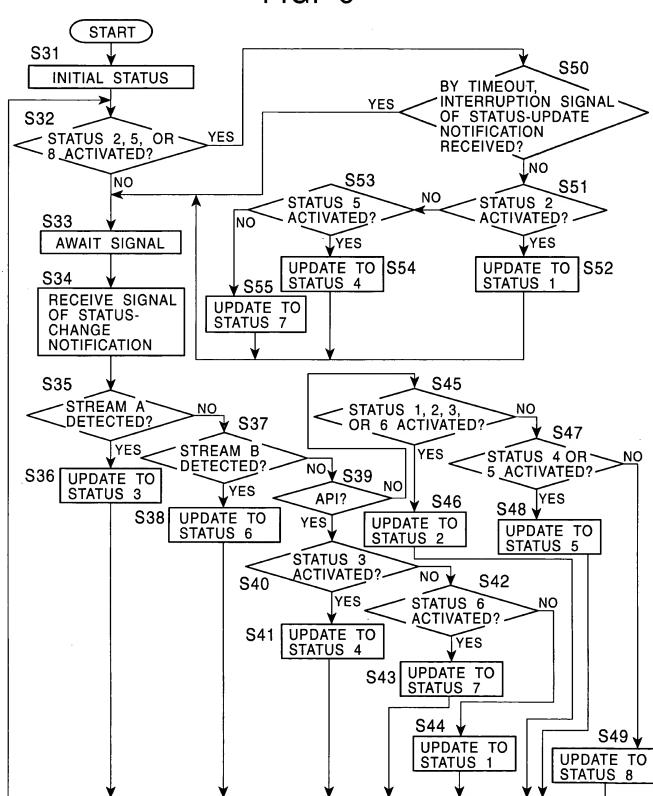


FIG. 6

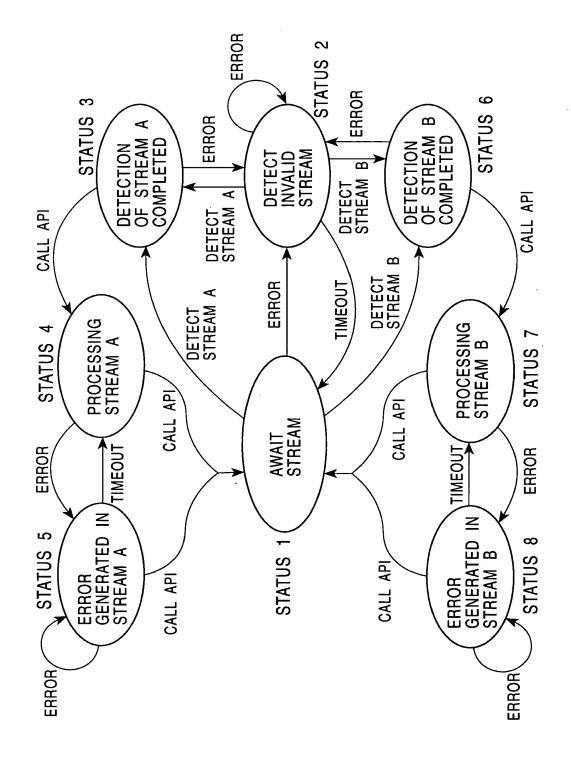


FIG. 7

